CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 31.01.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2019	31.01.2019	8.182	416.3	18.50
2	03.01.2019	31.01.2019	8.176	394.2	17.52
3	03.01.2019	31.01.2019	8.164	384.5	17.09

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 10.01.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2019	10.01.2019	8.127	259.3	11.52
2	03.01.2019	10.01.2019	8.136	278.2	12.36
3	03.01.2019	10.01.2019	8.127	263.5	11.71

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 31.01.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work : Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2019	31.01.2019	8.176	396.5	17.62
2	03.01.2019	31.01.2019	8.189	385.2	17.12
3	03.01.2019	31.01.2019	8.167	405.2	18.01

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂ...
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 05.01.2019

KERB STONE (CORE) TEST REPORT

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 05.01.2019

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.325	2331.28	1.42	0.960	28.40	14.46	15.62	15.00	18.75
2	50.00	73.00	0.336	2344.16	1.46	0.960	27.30	13.90	15.02	14.42	18.02
3	50.00	75.00	0.349	2369.92	1.50	0.960	26.40	13.45	14.52	13.94	17.43

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 10.02.2019

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 10.02.2019

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.358	2223.51	1.64	0.960	34.20	17.42	18.81	18.06	22.57
2	50.00	84.00	0.383	2322.15	1.68	0.960	35.10	17.88	19.31	18.53	23.17
3	50.00	86.00	0.399	2362.90	1.72	0.960	36.20	18.44	19.91	19.11	23.89

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

JobNo: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 12.01.2019

GRADATION FOR GSB (Close Graded)
IS : 2720 (Part - 4)

Agency : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Client : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of work : Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.
Date of Testing : 12.01.2019

Oven Dry Wt (gm) : 13329

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	-	-	-	100	100
26.5	1824	1824	13.68	86.32	70-100
9.5	2326	4150	31.14	68.86	50-80
4.75	2136	6286	47.16	52.84	40-65
2.36	1874	8160	61.22	38.78	30-50
0.425	2143	10303	77.30	22.70	15-25
0.075	2242	12545	94.12	5.88	3-10
PAN	784				
Total	13329				

TABLE – 2: Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading II

For CIVIL QUALITY CONSULTANTS & ENGINEE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Authorised Signatory

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 14.01.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.

Date of Testing : 14.01.2019

Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	342	342	3.3	96.7	95-100
22.4	3265	3607	34.4	65.6	60-80
11.2	1975	5582	53.2	46.8	40-60
4.75	1543	7125	67.9	32.1	25-40
2.36	1043	8168	77.8	22.2	15-30
0.600	765	8933	85.1	14.9	8-22
0.075	752	9685	92.2	7.8	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Authorised Signatory

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 **Date:** 14.01.2019

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements & asphalting roads at Manjunatha Nagara Tenginathot, Byraveshwaranagara, Sampangi Ramaiah Layout, main roads & cross roads of M.E.I Layout left Side, & Bagalagunte in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(03), BBMP, Bangalore.
Type of Mix	Wet Mix macadam
Date of Testing	14.01.2019

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	382	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	299	295	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.43	21.73	22.37	21.84

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory
→ The results indicated above are based on the tests carried out on the samples received in the laboratory
→ Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550